

**ABSTRACT OF THE DISCLOSURE**

[1044] By maintaining consistency of instruction or operation identification between code prepared for profiling and that prepared using profiling results, efficacy of profile-directed code optimizations can be improved. In particular, profile-directed optimizations based on stall statistics are facilitated in an environment in which correspondence maintained between (i) instructions or operations whose execution performance may be optimized (or which may provide an opportunity for optimization of other instructions or operations) and (ii) particular instructions or operations profiled.